

WHAT IS CLAIMED IS:

1           1.       An electrical pulse detection system for an imaging system, comprising:  
2                    an electrical signal-receiving device to receive an electrical signal, wherein the  
3                    electrical signal includes a continuous steady-state signal and a continuous active signal,  
4                    the steady-state signal and the active signal having different voltage levels;  
5                    a code-storage device to store program code;  
6                    a memory storage device to store a number representing a count of the active  
7                    signals received by the electrical signal-receiving device; and  
8                    a processor to access and execute the program code, wherein the program code is  
9                    adapted to detect the active signal of the electrical signal received by the electrical pulse-  
10                   receiving device, wherein execution of the program code causes the processor to execute  
11                   a subroutine when the active signal is detected, the subroutine testing the detected active  
12                   signal for up to a set number of times, and when the active signal is detected for each of  
13                   the set number of times during execution of the subroutine, the number stored in the  
14                   memory device is incremented.

1           2.       The system of claim 1, wherein the code-storage device is a read-only memory  
2                   (ROM).

1           3.       The system of claim 1, wherein the imaging system is a scanning system.

1           4.       The system of claim 1, wherein the imaging system is a printing system

1           5.       The system of claim 4, wherein the printing system is at least one copier.

1           6.       The system of claim 4, wherein the printing system is at least one computer  
2 printer.

1           7.       An electrical pulse detection system for an imaging system, comprising:  
2               an electrical signal-receiving device to receive an electrical signal, wherein the  
3 electrical signal includes a continuous steady-state signal and a continuous active signal,  
4 the steady-state signal and the active signal having difference voltage levels;  
5               a code-storage device to store program code;  
6               a memory storage device to store a number representing a count of the active  
7 voltage levels received by the electrical signal-receiving device; and  
8               a processor to access and execute the program code, wherein the program code is  
9 adapted to detect the active signal of the electrical signal received by the electrical signal-  
10 receiving device, wherein execution of the program code causes the processor to execute  
11 a subroutine when the active signal is detected, the subroutine testing the detected active  
12 signal for up to a set number of times, and when the active signal is detected for each of  
13 the set number of times during execution of the subroutine, the processor tests a  
14 subsequently detected steady-state signal for up to a second set number of times, and  
15 when the steady-state signal is detected for each of the second set number of times, the  
16 number stored in the memory storage device is incremented.

1           8.     The system of claim 7, wherein the code-storage device is a read-only memory  
2 (ROM).

1           9.     The system of claim 7, wherein the imaging system is a scanning system.

1           10.    The system of claim 7, wherein the imaging system is a printing system.

1           11.    The system of claim 10, wherein the printing system is at least one copier.

1           12.    The system of claim 10, wherein the printing system is at least one computer  
2 printer.

1           13.    A method of storing and outputting a count for an imaging device, comprising:  
2                storing the count in a memory storage device;  
3                detecting a continuous active signal from an input, wherein the input includes  
4 continuous active signals and continuous steady-state signals;  
5                receiving a count request from a remote device;  
6                incrementing the count in the memory storage device when the continuous active  
7 signal from the input is detected; and  
8                outputting the count to the remote device.

1           14.    The method of claim 13, wherein detecting the continuous active signal includes  
2 testing the active signal for up to a set number of times.

1           15.    The method of claim 14, wherein detecting the continuous active signal further  
2 includes testing a subsequent steady-state signal for up to a second set number of times.

1           16.    The method of claim 13, wherein the continuous active signal represents a signal  
2 from the imaging device indicating that an imaging job has been completed.

1           17.    The method of claim 13, wherein the count is accessible to a computer system.

1           18.    The method of claim 13, wherein the code-storage device is a read-only memory  
2 (ROM).

1           19.    The system of claim 13, wherein the imaging system is a scanning system.

1           20.    The system of claim 13, wherein the imaging system is a printing system.

1           21.    The system of claim 20, wherein the printing system is at least one copier.

1           22.    The system of claim 20, wherein the printing system is at least one computer  
2 printer.